

## PATENT ABSTRACTS OF JAPAN

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(54) TEMPERATURE-SENSITIVE MLV-TYPE LIPOSOME WITH IMPROVED  
DISPERSIBILITY

(57)Abstract:

PURPOSE: To provide the subject liposome excellent in the controlled releasability for medicine, useful for cancer, tumor, etc., comprising dipalmitoylphosphatidyl- choline and negatively charged diacyl-glycerophosphatide at a specified proportion.

CONSTITUTION: The objective liposome comprising (A) dipalmitoylphosphatidyl- choline and (B) a negatively charged 1,2-diacyl-glycerophosphatide (where, acyl groups at 1- and 2-sites are each palmitoyl or stearyl independent of each other) at the weight ratio of (20:1) to (8:2). This liposome has the following characteristics: (1) the osmotic pressure ratio for inside aqueous phase is 1.5 to 2 times that for physiological isotonic liquid, and (2) particle diameter is 0.03-0.5 $\mu$ m.

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CLAIMS

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[Claim(s)]

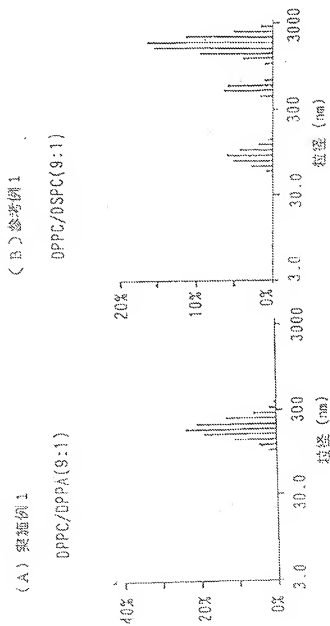
[Claim 1]A 1,2-diacyl glycerophospholipid which has dipalmitoylphosphatidylcholine and a negative charge (however, acyl of the 1st place and the 2nd place) mutual -- independently -- palmitoyl or stearoyl -- it is -- the temperature sensitivity MLV type liposome by which dispersibility containing by a weight ratio of 20:1-8:2 has been improved.

[Claim 2]The temperature sensitivity MLV type liposome according to claim 1 whose osmotic pressure ratio of inner aqueous phase is twice [ 1.5 to ] the physiological isotonic solution.

[Claim 3]The temperature sensitivity MLV type liposome according to claim 1 or 2 whose particle diameter is 0.03-0.5 micrometer.

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Drawing selection Drawing 1

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